

## CLAIMS

1. A mold core (1) of an injection molding tool for the injection molding of preforms of plastic material, wherein the mold core (1) is in the form of a hollow casing which is closed at one end, with a central axis (2), an outer surface (3), an inner surface (4) and a hollow cooling tube (5) which is arranged in the mold core (1) at a spacing from the inner surface (4) thereof, in communication with coolant feed conduits (7) and coolant discharge conduits (8), characterised in that

- the cooling tube (5) extends coaxially with respect to the mold core (1) over almost the entire length thereof and is provided at the downstream end with an outlet opening (9), and

- that provided on the inner surface (4) of the mold core (1) are cooling grooves (11) extending substantially transversely with respect to the central axis (2).

2. A mold core (1) as set forth in claim 1 characterised in that the cooling grooves (11) are of a pointed and/or round profile in cross-section.

3. A mold core (1) as set forth in claim 1 or claim 2 characterised in that the cooling grooves (11) extend in a helical configuration.

4. A mold core (1) as set forth in one of claims 1 through 3 characterised in that the cooling grooves (11) extend over that surface region (10) of the mold core (1), on which the preform is injected.

5. A mold core (1) as set forth in one of claims 1 through 4 characterised in that the outlet opening (9) on the cooling tube (5) has at least one cut-out (13) extending in the direction of the central axis (2).